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Decedicate   Dec	ונ						
1999/0816/21:00   news   Taro Yamamoto   News Seven (continuous every day/ all year ro     1999/0816/21:00   docum-		program title	broadcast date and time	genre	program summary	television personalities	serles information (broadcast mode)
1999/081221:00   docum-			1999/0808/07:00	sweu		Taro Yamamoto	Seven (continuous day/ all year
1989/081201:00   docum-   docum-   Hanako Yamashita   Total Solar Eclipse   Shotaro Kato   Continuous every day/ 1 c   Shotaro Kato   Continuous every day/ 2 c   Shotaro Kato   Continuous every day/ 2 c   Story of Tragic   John Long   Holiday in Los Angeles   Love Set in Los   Catherine Ross   23.00   movie   Love Set in Los   Catherine Ross   Continuous every week/   25.00   Story of Tragic   John Long   Catherine Ross   Continuous every week/   Angeles   Love Set in Los   Catherine Ross   Continuous every week/   Catherine Ross   Love Set in Los   Catherine Ross   Continuous every week/   Catherine Ross   Love Set in Los   Catherine Ross   Continuous every week/   Continuous every week/   Catherine Ross   Continuous every week/   Catherine Ross   Continuous every week/   Catherine Ross   Catherine Ross   Catherine Ross   Continuous every week/   Catherine Ross   Catherine R	L						
		Total Solar Eclipse (first)		docum- entary		1 0	Eclipse every day/ 1 of
Story of Tragic   John Long   Holiday in Los Angeles		Total Solar Eclipse (second)		docum- entary		Hanako Yamashita Shotaro Kato	Solar Eclipse nous every day/ 2 of
1999/0809/21:00   Story of Tragic   John Long   Holiday in Los Angeles		,					
1999/0816/21:00   mov1e   Love Set in Los   Catherine Ross   Continuous every week     1999/0810/18:00   Sports   Love Set in Los   Catherine Ross   Continuous every week     1999/0810/18:00   Grama   Love Set in Los   Catherine Ross   Continuous every week     1999/0810/28:00   Grama   Catherine Ross   Continuous every week   6 of 12     1999/0811/20:00   Grama   Catherine Ross   Catherine Ross   Continuous every week   6 of 12     1999/0811/20:00   Grama   Catherine Ross		ay nge 25	1999/0809/21:00	movie	of Set es	I .	Holiday in Los Angeles (continuous every week/ 25 of 50)
1999/0810/18.00   sports   Professional Baseball Gam   Professional Baseball Gam   A vs. B (broadcast interv not determined/ 8 of 12)     1999/0804/20.00   drama	HH HH		1 999/0816/21:00 23:00		Set Set	John Long Catherine Ross	Holiday in Los Angeles (continuous every week/ 26 of 50)
1999/0810/18:00   Sports   S							
1989/028/20:00   drama	ри от	rofessional Bas- ball Game A vs.	1999/0810/18:00 21:00	sports			Professional Baseball Game A vs. B (broadcast interval not determined/ 8 of 12)
1999/0804/20:00 drama		Will be Orrow (s	1999/0728/20:00 21:00	drama			Will be Sunny Tomorrow inuous every week/ 6 of
Sunny 1999/0811/20:00 drama drama	_H H	t Will be Sunny Omorrow(seventh)	1999/0804/20:00 21:00	drama			It Will be Sunny Tomorrow (continuous every week/ 7 of 12)
	I	t Will be Sunny	1999/0811/20:00 21:00	drama	ļ		Will be Sunny Tomorrow Inuous every week/ 8 of
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present time 1999/08/12 20:30 maximum recording time 12 hours program erasure priority criterion broadcast start date and time

r	ro .	<del></del>	<del>r</del>	1	
total usage time	2 hours in total	4 hours in total	3 hours in total	3 hours in total	
condition				recorded (1 hour) 1999/0811/20:00	·
program recording condition (recording time)	recorded recorded (1 hour) (1 hour) 1999/0811/07:00	set for recording (2 hours)		recorded recorded recorded 3 hour (1 hour) (1 hour) (1 hour) 1999/0728/20:00 1999/0804/20:00 1999/0811/20:00 total	·
program )	recorded (1 hour) 1999/0811/07:00	recorded set for (2 hour) recording (1999/0809/21:00 (2 hours) 1999/0816/21:00	recorded (3 hour) 1999/0810/18:00	recorded (1 hour) 1998/0728/20:00	
viewer limitation (password)	nil	nil	exists (***)	nil.	
recording setter	<b>d</b> .	В	А	C	
program group erasure possibility conditions	erasable	non-erasable	erasable	non-erasable	
program group recording conditions	recording of newest program (1)	recording of newest program (2)		recording of newest program (3)	
program group title	News Seven	Holiday in Los Angeles	Professional Baseball Game A vs. B	It Will be Sunny Tomorrow	
сраппет	12	10	80	90	

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present time 1999/08/12 20:30 maximum recording time 12 hours program erasure priority criterion broadcast start date and time

total usage time	2 hours in total	4 hours	in total	in total 3 hours in total	in total 3 hours in total 3 hours in
condition ime)					recorded (1 hour)
program recording condition (recording time)	xecorded recorded (1 hour)   1999/0811/07:00   1999/0812/07:00   1999/081/081/07:00   1999/0812/07:00   1999/0812/07:00   1999/0812/07:0	set for recording (2 hours)	1999/0816/21:00	<del> </del>	1999/0816/21:00 recorded (1 hour) 1999/0804/20:00
program (r	recorded (1 hour)	recorded set for (2 hour) recording (1999/0809/21:00 (2 hours) 1999/0816/21:0		xecorded (3 hour)	recorded (3 hour) 1999/86 hour) recorded (1 hour) 1999/0728/20:00
viewer limitation (password)	nil	nil		exists (***)	exists (***) nil
recording setter	A	æ	_	A	A 0
program group erasure possibility conditions	erasable	non-erasable		erasable	erasable non-erasable
program group recording conditions	recording of newest program (1)	recording of newest program (2)			recording of newest program (3)
program group title	News Seven	Holiday in Los Angeles		Professional Baseball Game A vs. B	1 3 4 3 9
срвииет	12	9		80	

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present time 1999/08/12 20:41 maximum recording time 12 hours program erasure priority criterion broadcast start date and time

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total usage time	2 hours in total	4 hours in total	3 hours in total	3 hours in total	4 hours in total	
condition ime)				recorded (1 hour) 1999/0811/20:00		
program recording condition (recording time)	recorded recorded (1 hour) (1 hour) (1 hour)	set for recording (2 hours)		recorded recorded recorded 3 h (1 hour) (1 hour) (1 hour) (1 hour) in 1999/0728/20:00 1999/0804/20:00 1999/0811/20:00 to	set for set for recording recording (2 hours) (2 hours) 999/0812/21:00	
program )	recorded (1 hour) 1999/0811/07:00	recorded set for (2 hour) recording 1989/0809/21:00 (2 hours) 1999/0816/21:00	recorded (3 hour)	recorded (1 hour) 1999/0728/20:00	set for recording (2 hours)	
viewer limitation (password)	nil	nil	exists (***)	nil	n11.	
recording	A	В	A	၁	А	
program group erasure possibility conditions	erasable	non-erasable	erasable	non-erasable	non-erasable	·
program group recording conditions	recording of newest program (1)	recording of newest program (2)		recording of newest program (3)	recording of programs (all)	
program group title	News Seven	Holiday in Los Angeles	Professional Baseball Game A vs. B	It Will be Sunny Tomorrow	Total Solar Eclipse	· _
срэппет	12	10	80	90	12	

Fig. 6

present time 1999/08/13 21:00 maximum recording time 12 hours program erasure priority criterion broadcast start date and time

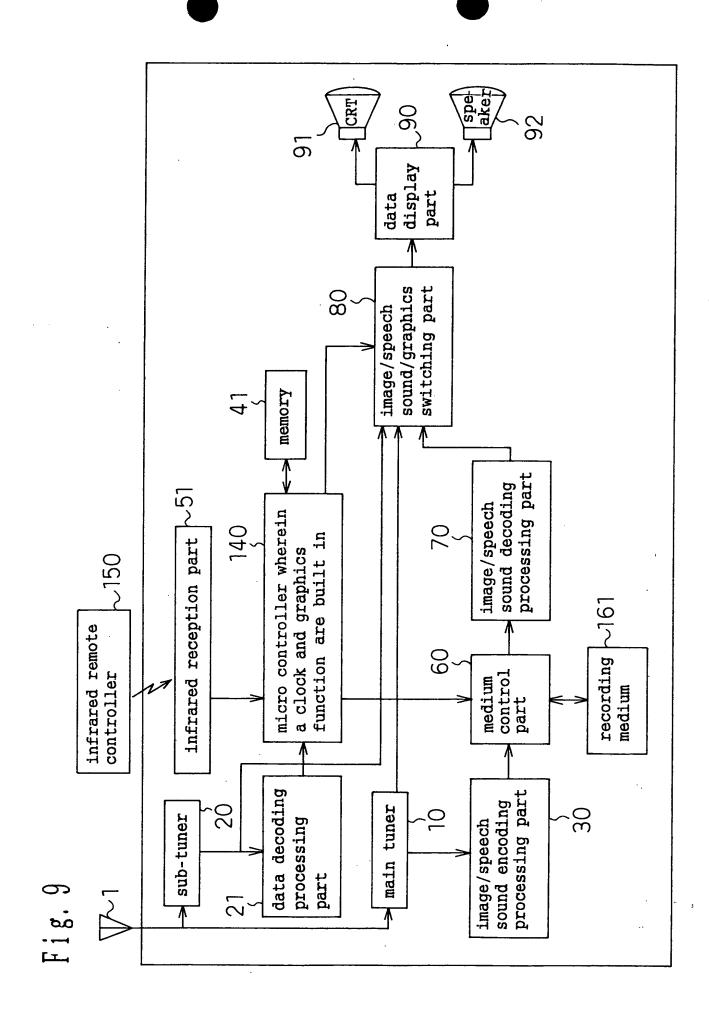
total usage time	2 hours in total	4 hours in total	3 hours in total	4 hours in total	
condition ne)			recorded (1 hour) 1999/0811/20:00		
program recording condition (recording time)	recorded recorded (1 hour) (1 hour) 1999/0811/07:00	set for recording (2 hours)	recorded recorded recorded 3 hour (1 hour) (1 hour) (1 hour) 1n 999/0728/20:00 1999/0804/20:00 1999/0811/20:00 total	recorded recording (2 hours) (2 hours) 1999/0812/21:00	
program 1	recorded (1 hour) 1999/0811/07:00	recorded   set for (2 hour)   recording (1999/0809/21:00   1999/0816/21:0	recorded (1 hour) 1999/0728/20:00	recorded (2 hour) 1999/0812/21:00	
viewer limitation (password)	lin	Tļu	lin	nil	
recording	А	В	0	А	
program group erasure possibility conditions	erasable	non-erasable	non-erasable	non-erasable	
program group recording conditions	recording of newest program (1)	recording of newest program (2)	recording of newest program (3)	recording of programs (all)	
program group title	News Seven	Holiday in Los Angeles	It Will be Sunny Tomorrow	Total Solar Eclipse	
срушие у	12	10	90	12	

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12 hours program erasure priority criterion broadcast maximum recording time program recording condition (recording time) 999/0817407:00|1999/0812/07:00 1999/0812/21:00 | 1999/0813/21:00 set for recording (2 hours) recorded (1 hour) present time 1999/08/12 20:40 recording (2 hours) Seconded recorded (1)hour set for start date and time non-erasable program group possibility erasable erasable conditions erasure program group of programs program (1) recording of newest recording conditions recording (all) program title Baseball Game S Professional Total Solar Eclipse News Seven മ B recording password setter A channel 12 12

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program erasure priority criterion broadcast maximum recording time program recording condition (recording time) (1 hour) (1 hour) 1999/0811/07:00 1999/0812407:00 1999/0812/21:00 | 1999/0813/21:00 recording (2 hours) secorded set for present time 1999/08/12 20:41 recording recorded (2 hours) recorded set for start date and time non-erasable 12 hours program group erasable possibility conditions erasure program group of programs program (1) recording recording conditions of newest recording (all) program title Game O Professional Total Solar Eclipse News Seven  $\mathbf{m}$ Baseball 'n VS. recording password setter A channel 12 12



i g. 10

present time 1997/04/09 10:00 maximum recording capacity 8.5GB

erasure possibility	erasable	non-erasable	erasable	erasable	erasable	erasable	erasable	
number of playbacks/dubbings possibility				0	വ		0	cant capacity OGB non-erasable capacity 1GB
broadcast start date and time	97/04/01 18:01	97/04/01 19:00	97/03/18 18:00	97/03/19 18:00	97/03/18 06:00	97/04/08 18:01	97/04/08 19:00	VaC
program recording broadcast start capacity	1GB	1GB	2GB	2GB	0.5GB	1GB	1GB	ecorded capacity 8.5GB
program title	News ABC	Drama XYZ	Baseball Game ab vs. cd 01	Baseball Game ab vs. cd 02	English Conversation 3	News CDF 2	Drama XXX	ty already recorded ment re-writable capa
pro	12ch N	2ch	6ch	6ch E	12ch E	12ch	4ch I	capacity management
we.	160	Σđ	rgeg	reco				

number of playbacks/dubbings possibility	non-erasable		
number of playbacks/	0		ing 4.5GB
recording broadcast start date and time	97/04/09 18:00	-	grams set for recording 3GB ty for programs set for recording 4.5GB
program recording capacity	3GB		for programs set fo l capacity for progra
title	Baseball Game ab vs. cd 12		capacity for prog potential capacit
program title	6ch Baseba		capacity management
Joj			prog

present time 1997/04/09 10:10 maximum recording capacity 8.5GB

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Lew	ıd	program title		program recording capacity	broadcast start date and time	number of playbacks/dubbings possibility	erasure possibility
.6oJ	12ch	News ABC		1GB	97/04/01 18:01		erasable
ıd	2ch	Drama XYZ		1GB	97/04/01 19:00	1	erasable
ırgeg	9ch	Baseball Game ab vs. cd 01	ame 01	2GB	97/03/18 18:00	-	erasable
reco	6ch	Baseball Game ab vs. cd 02	ame 02	2GB	97/03/19 18:00	0	erasable
	12ch	English Conversation 3	on 3	0,5GB	97/03/18 06:00	S	non-erasable
	12ch	News CDF 2		168	97/04/08 18:01		erasable
	4ch	Drama XXX		1GB	97/04/08 19:00	0	erasable
	capacity		recorded	capacity 8.5GB	vacant capacity 0GB		
	management		ritab	re-writable capacity 8GB	non-erasable capacity 0.5GB	city 0.5GB	

IOI	pr	program title	itle	program recording capacity	broadcast start date and time	number of erasure playbacks/dubbings possibility	erasure possibility
rd e ser	9ch	Baseba. ab vs.	Baseball Game ab vs. cd 12	3GB	97/04/09 18:00	0	non-erasable
grams	9ch	Baseba. ab vs.	Baseball Game ab vs. cd 13	1.5GB	97/04/12 18:00	0	erasable
cec			,				
	capacity management	<u></u>	capacity for progr potential capacity	10 .	rams set for recording 4.5GB y for programs set for recording 3.5GB	ng 3.5GB	

i g. 12

present time 1997/04/09 10:00 maximum recording capacity 8.5GB

program erasure priority criterion playback broadcast start date and time playback 97/03/1818:01 97/04/0119:00 playback 97/03/1806:00 twice or more					
K A da	cıty	orogram +i+le	program	erasure	erasure plan
A BOTO	t start time		capacity	proticy	(date and time)
more	8 18:00	Baseball Game ab vs. cd 01	2GB	first	erasure plan (4/918:00)
and the second s	1 18:01	News ABC	1GB	second	erasure plan (4/918:00)
more	1 19:00	Drama XYZ	1 GB	non-erasable	
more	8 18:01	News CDF	1GB	third	
		English Conversation 3	0.5GB	fourth	
97/03/1918:00 no playback	918:00	Baseball Game ab vs. cd 02	2GB	fifth	
97/04/08 19:00	8 19:00	Drama XXX	1 GB	sixth	
set for 97/04/0918:00 recording	9 18:00	Baseball Game ab vs. cd 12	3GB	non-erasable	

Fig. 13

present time 1997/04/09 10:10 maximum recording capacity 8.5GB

	H (		ជ	ri Li	u	u					
Fallondan Sr	erasure plan	(date and time	erasure plan (4/918:00)	erasure plan (4/918:00)	erasure plan (4/12 18:00)	erasure plan (4/12 18:00)					
	erasure	For the state of t	first	second	third	fourth	non-erasable	fifth	sixth	non-erasable	seventh
	program recording	capacity	2GB	168	1GB	1GB	0.5GB	2GB	1 GB	3GB	1.5GB
	program title		Baseball Game ab vs. cd 01	News ABC	Drama XYZ	News CDF	English Conversation 3	Baseball Game ab vs. cd 02	Drama XXX	Baseball Game ab vs. cd 12	Baseball Game ab vs. cd 13
	program erasure priority criterion	broadcast start date and time	97/03/18 18:00	97/04/01 18:01	97/04/01 19:00	97/04/08 18:01	97/03/18 06:00	97/03/19 18:00	97/04/08 19:00	97/04/09 18:00	97/04/12 18:00
	program eras criterion	playback number	playback	92110			playback twice or more	no plavback	7	set for recording	

Fig. 14

screen

10	etting  -  -  -	recor	ersa	rosse rosse							
10:00	<i>\</i>										rele- ase
present time 1997/04/09 10:00	erasure plan (date and time)	erasure plan (4/918:00)	erasure plan (4/918:00)		erasure plan (4/1218:00)	erasure plan (4/1218:00)			set for recording	set for recording	return
pres	erasure priority	first	second	non-erasable	third	fourth	fifth	sixth	non-erasable	seventh	
	program recording capacity	2GB	1GB	1GB	1GB	0.5GB	2GB	.1GB	3GB	1.5GB	ed planned
	program title	Baseball Game ab vs. cd 01	News ABC	Drama XYZ	News CDF	English Conversation 3	Baseball Game ab vs. cd 0/2	Drama XXX	Baseball Game ab vs. cd 12	Baseball Game ab vs. cd 13	usage confirm
	broadcast start date and time	97/03/18 18:00	97/04/01 18:01	97/04/01 19:00	97/04/08·18:01	97/03/18 06:00	97/03/19 18:00	97/04/08 19:00	97/04/09 18:00	97/04/12 18:00	non-erasable  ()  re-writable 3.5GB
											non-e

Screen

956	manual setting of release of erasing/recording									
erasure plan g	erasure plan (4/918:00)	erasure plan (4/918:00)	erasure plan (4/1218:00)	erasure plan (4/1218:00)				set for recording	set for recording	
erasure priority	first	second	third	fourth	non-erasable	fifth	sixth	non-erasable	seventh	
program recording	2GB	1GB	1GB	1GB	0.5GB	2GB	1GB	3GB	1.5GB	
program title	Baseball Game ab vs. cd 01	News ABC	Drama XYZ	News CDF	English Conversation 3	Baseball Game ab vs. cd 02	Drama XXX	Baseball Game ab vs. cd 12	Baseball Game ab vs. cd 13	
broadcast start date and time	97/03/18 18:00	97/04/01 18:01	97/04/01 19:00	97/04/08 18:01	97/03/18 06:00	97/03/19 18:00	97/04/08 19:00	97/04/09 18:00	97/04/12 18:00	

non

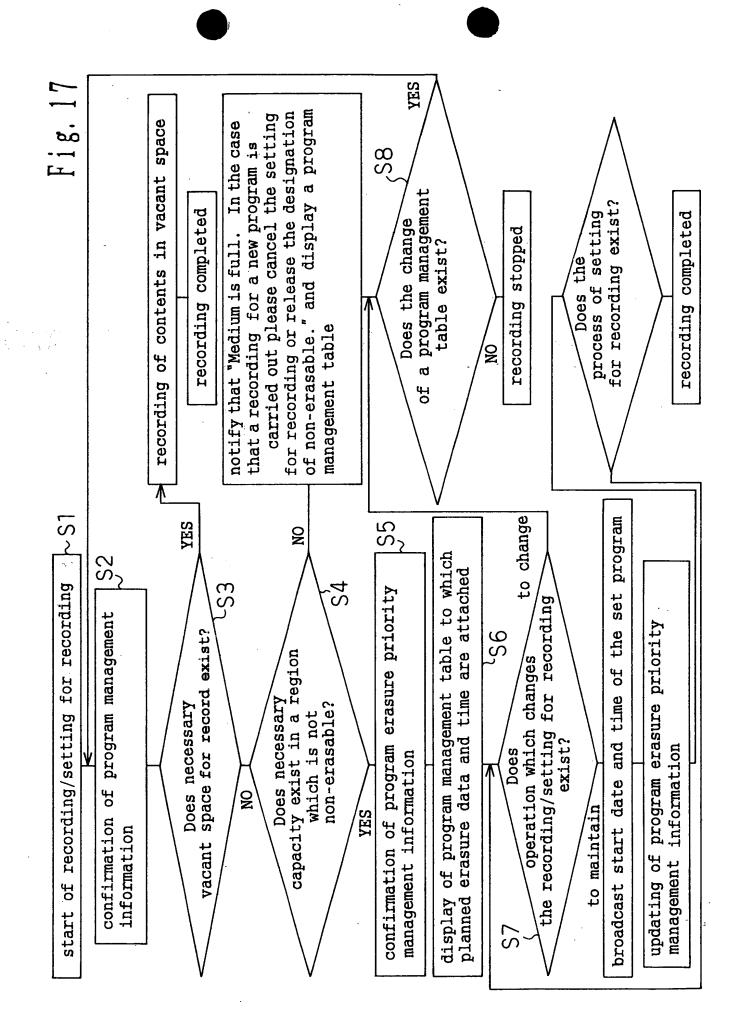
. 5GB re-writable

return

rele-ase

т. оо

present time 1997/04/09 10:10 screen re-writable 3.5GB non-erasable



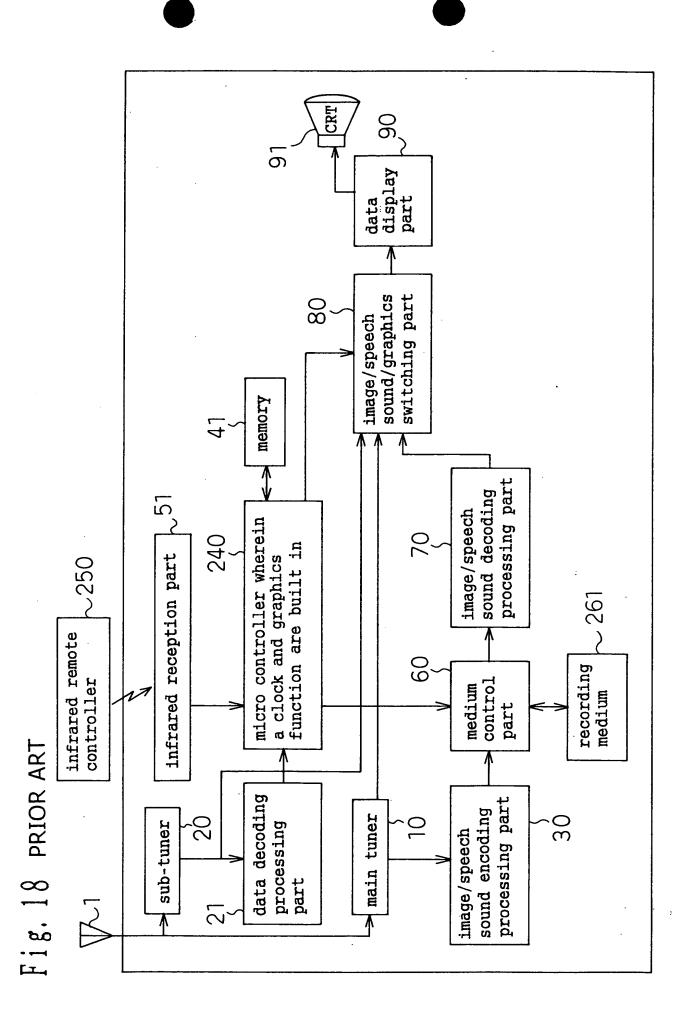


Fig. 19 PRIOR ART

present time 1999/08/12 20:30 max1mum recording time 12 hours program erasure priority criterion broadcast start date and time

ndition )				recorded (1 hour) 1999/0811/20:00	
program recording condition (recording time)	recorded (1 hour) 1999/0812/07:00	set for recording (2 hours)		recorded (1 hour) 1999/0804/20:00	
program (rec	recorded (1 hour) 1999/0811/07:00	recorded (2 hour) 1999/0809/21:00	recorded (3 hour) 1999/0810/18:00	recorded (1 hour) 1999/0728/20:00	
program group recording conditions	recording of newest program (1)	recording of newest program (2)		recording of newest program (3)	
program group title	News Seven	Holiday in Los Angeles	Professional Baseball Game A vs. B	It Will be Sunny Tomorrow	
срушин	12	92	80	90	

Fig. 20 prior art

present time 1999/08/12 20:30 maximum recording time 12 hours program erasure priority criterion broadcast start date and time

_							
	ndition )		·		recorded (1 hour) 1999/0811/20:00		
	program recording condition (recording time)	recorded (1 hour) 1999/0812/07:00	set for recording (2 hours)		recorded (1 hour) 1999/0804/20:00	set for recording (2 hours)	
	program (rec	recorded (1 hour) 1999/0811/07:00	recorded (2 hour)	recorded (3 hour) 1989/0810/18:00	recorded (1 hour)	set for recording (2 hours)	
	program group recording conditions	recording of newest program (1)	recording of newest program (2)		recording of newest program (3)	recording of programs (all)	·
	program group title	News Seven	Holiday in Los Angeles	Professional Baseball Game A vs. B	It Will be Sunny Tomorrow	Total Solar Eclipse	
	среииет	12	5	80	90	12	

## Fig. 21 prior art

present time 1999/08/12 21:00 maximum recording time 12 hours program erasure priority criterion broadcast start date and time

_							
	ndition				recorded (1 hour) 1999/0811/20:00		
1	program recording condition (recording time)	recorded (1 hour) 1999/0812/07:00	set for recording (2 hours)		recorded (1 hour) 1999/0804/20:00	set for recording (2 hours)	
nď time	program (rec	recorded (1 hour) 1999/0811/07:00	recorded (2 hour) 1999/0809/21:00	recorded (3 hour) 1999/0810/18:00	recorded (1 hour) 1999/0728/20:00	recording (2 hours)	
start date and time	program group recording conditions	recording of newest program (1)	recording of newest program (2)		recording of newest program (3)	recording of programs (all)	
	program group title	News Seven	Holiday in Los Angeles	Professional Baseball Game A vs. B	It Will be Sunny Tomorrow	Total Solar Eclipse	
	срвииет	12	01	80	90	12	